AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-46 (Cancelled)

- 47. (Currently Amended) An implantable prosthesis, comprising:
 - (a) a prosthetic component having first and second surfaces, wherein the second surface is oriented toward a bone in which the component is to be implanted;
 - (b) at least two openings <u>extending from the first surface to the second surface; each opening of</u> the at least two openings comprising
 - (i) an upper portion comprising an extended non-threaded frustoconical taper section extending through a substantial portion of the opening and
 - (ii) a lower portion; and
 - (c) an insertion member having a head which includes a non-frustoconical contact surface that comprises a slice of a sphere, wherein when the insertion member is inserted into the opening, the curved a portion of the slice adapted to contact contacts the frustoconical taper section of the upper portion, whereby and wherein the contact between the non-frustoconical contact surface of the head and the frustoconical contact taper section of the opening
 - (i) creates a self locking relationship between the insertion member and the opening to lock the insertion member in one of a plurality of desired angles relative to the prosthesis opening so that the insertion member and the prosthesis form a rigid physical construct at each of the angles; and
 - (ii) forms a substantially fluid tight seal between the head and the opening, thereby preventing the escape of polyethylene wear particles to the outside of the prosthetic component; and wherein

- a) the head does not contact the lower portion of the opening;
- b) the head does not protrude beyond the first surface; and
- c) every the opening is adapted to <u>interchangeably</u> receive at least <u>one</u> of the insertion members selected from the group consisting of an aperture cover, a screw, <u>a spike</u> and a peg.
- 48. (Previously Presented) The implantable prosthesis of claim 47, wherein the lower portion of the opening is a curved surface, a rounded surface, or a spherical surface.
- 49. (Previously Presented) The implantable prosthesis of claim 47, wherein the head of the insertion member comprises an outer edge that is spherical, near-spherical, toroidal, elliptical, global, slightly curved, or rounded.
- 50. (Previously Presented) The implantable prosthesis of claim 47, wherein the prosthesis comprises a hip replacement system and wherein the first and second surfaces are surfaces of an acetabular cup.
- 51. (Previously Presented) The implantable prosthesis of claim 47, wherein the lower portion comprises a rounded section beginning at a narrow end of the frustoconical taper section and having a smaller diameter than the frustoconical taper section.
- 52. (Previously Presented) The implantable prosthesis of claim 47, wherein, when the insertion member is inserted into the opening, there is a gap between the second surface of the prosthetic component and the insertion member head.
- 53. (Previously Presented) The implantable prosthesis of claim 47, wherein at least one of the at least two openings comprises a chamfer edge, an upper portion comprising a conical taper, a lower portion comprising a rounded section, and a cylindrical portion, wherein
 - (i) the chamfer edge is formed where the opening meets the first surface;

- (ii) the chamfer edge meets the upper portion and wherein the conical taper of the upper portion extends through a substantial portion of the opening,
- (iii) the upper portion meets the lower portion comprising a rounded section at a narrow end of the conical taper; and
- (iv) the lower portion ends at the second surface at cylindrical portion.
- 54. (Previously Presented) The implantable prosthesis of claim 53, wherein the rounded section has a smaller diameter than the conical taper.
- 55. (New) The implantable prosthesis of claim 47, wherein the slice of the sphere comprises a center point of the sphere.
- 56. (New) An implantable prosthesis, comprising:
 - (a) a prosthetic component having first and second surfaces, wherein the second surface is oriented toward a bone in which the component is to be implanted;
 - (b) at least two openings extending from the first surface to the second surface; each opening of the at least two openings comprising a non-threaded frustoconical taper section extending through a substantial portion of the opening; and,
 - (c) an insertion member having a head comprising an outer rim falling on a slice of a sphere containing a center point of the sphere, wherein, when the insertion member is inserted into the opening, a portion of the rim contacts the frustoconical taper section, and wherein the contact between the non-frustoconical contact surface of the head and the frustoconical taper section creates a self locking relationship between the insertion member and the opening to lock the insertion member in one of a plurality of desired angles relative to the opening so that the insertion member and the prosthesis form a rigid physical construct at each of the angles.

- 57. (New) An implantable prosthesis, comprising:
 - (a) a prosthetic component having first and second surfaces, wherein the second surface is oriented toward a bone in which the component is to be implanted;
 - (b) at least two openings extending from the first surface to the second surface; each of the at least two openings comprising a non-threaded frustoconical taper section extending through a substantial portion of the opening; and,
 - (c) an insertion member having a head comprising an outer rim falling on a slice of a sphere, wherein, when the insertion member is inserted into the opening, a portion of the rim contacts the frustoconical taper section, and wherein the contact between a portion of the rim and the frustoconical contact taper section locks the insertion member in one of a plurality of desired angles relative to the opening so that the insertion member and the prosthesis form a rigid physical construct at each of the angles.
- 58. (New) The implantable prosthesis of Claim 58, wherein the slice of the sphere contains a center point of the sphere